

Figure 1A

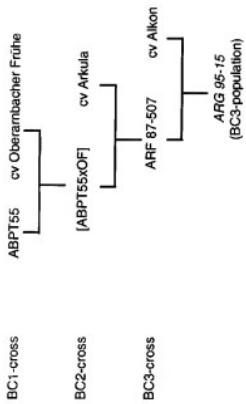


Figure 1B

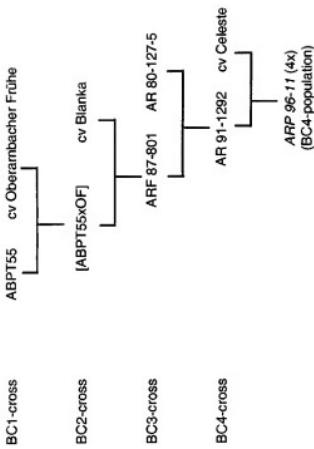


Figure 1C

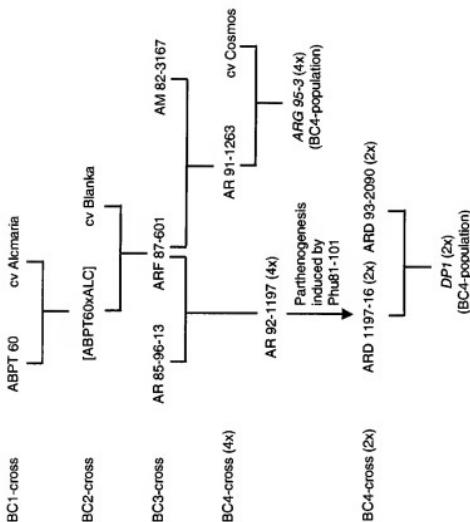


Figure 1D

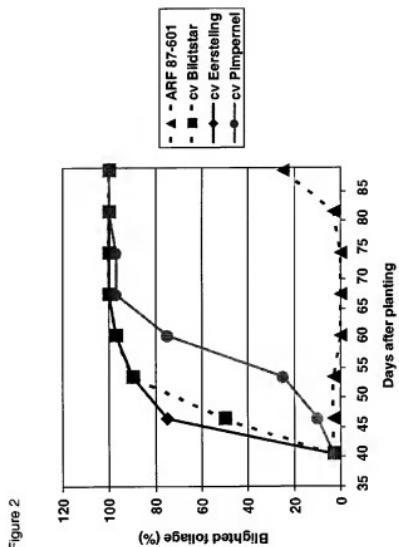


Figure 2

Figure 3
* ARF 87-507 and ARF 87-601 had identical disease progress curves

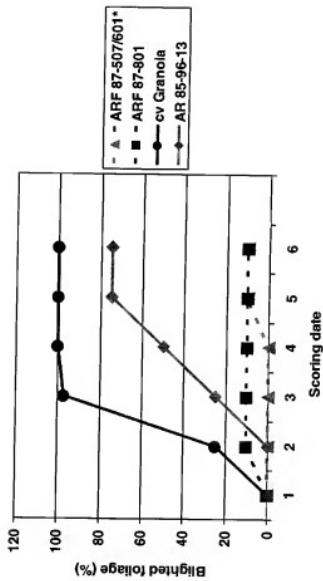




Figure 4



Figure 4 dia 3



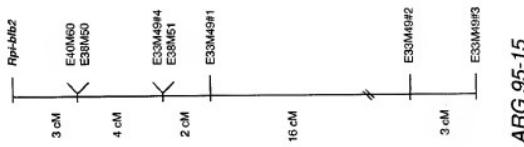
Figure 4 dia 4



Figure 4 dia 5



Figure 4 dia 6



ARG 95-15

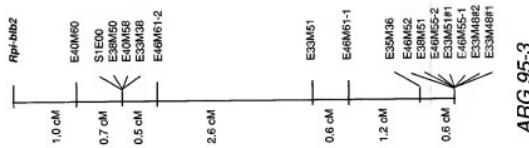


Figure 6

ARG 95-3

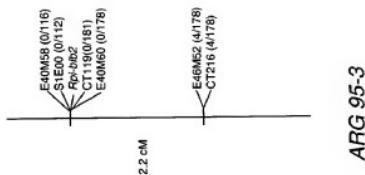


Figure 7

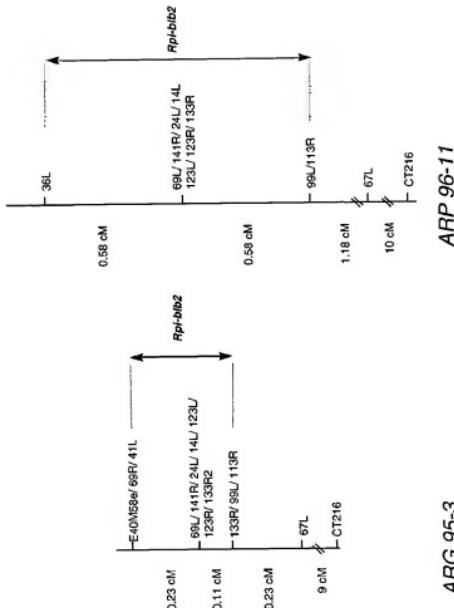
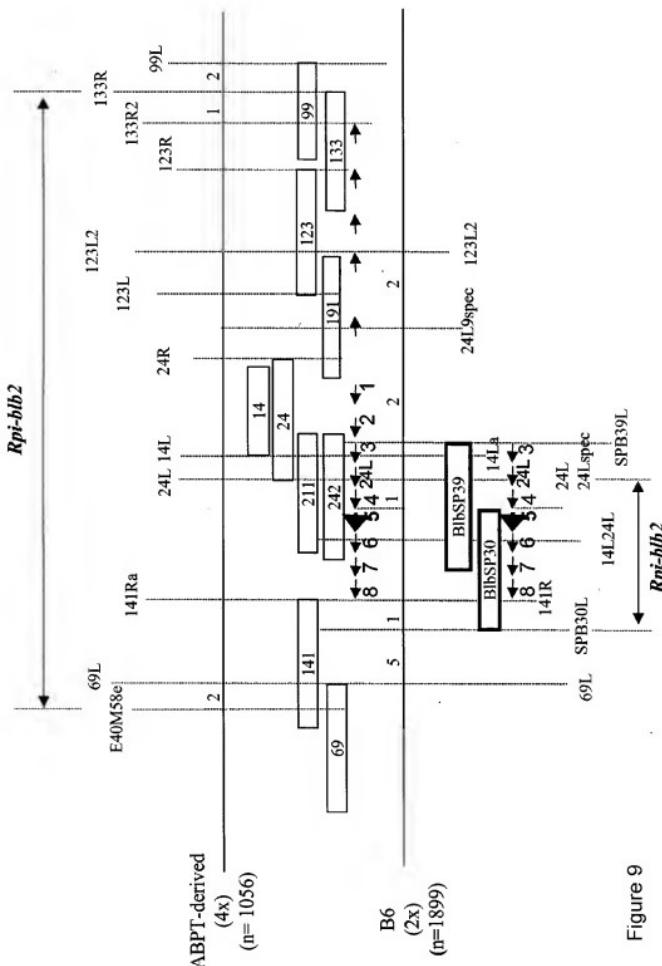


Figure 8



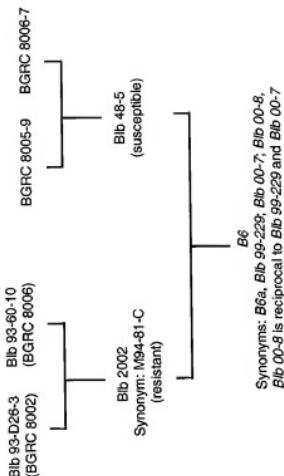


Figure 10

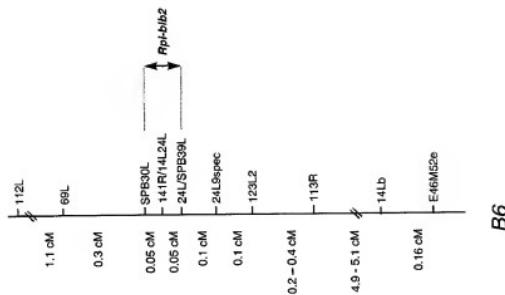


Figure 11

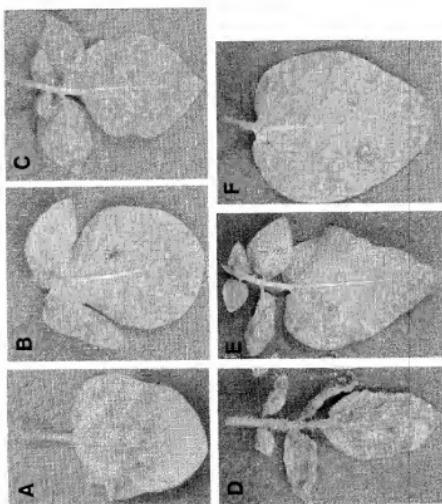


Figure 12

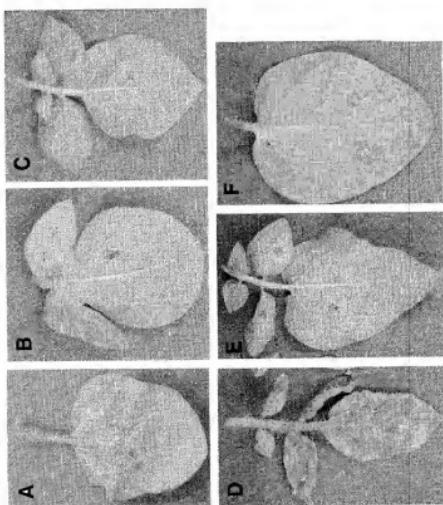


Figure 12 dia2

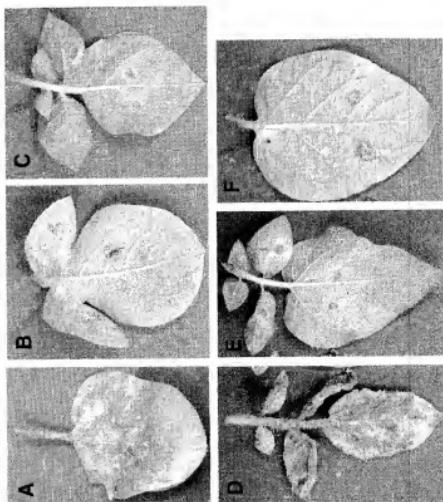


Figure 12 dia 3

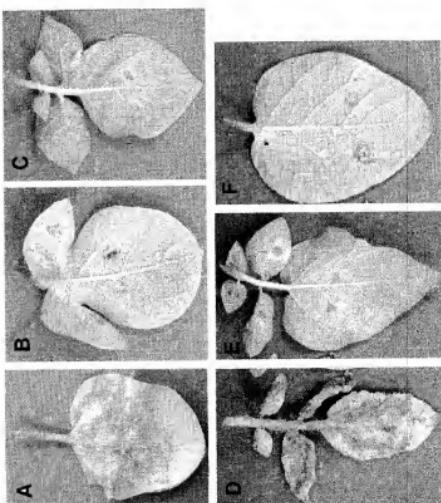


Figure 12 dia 4

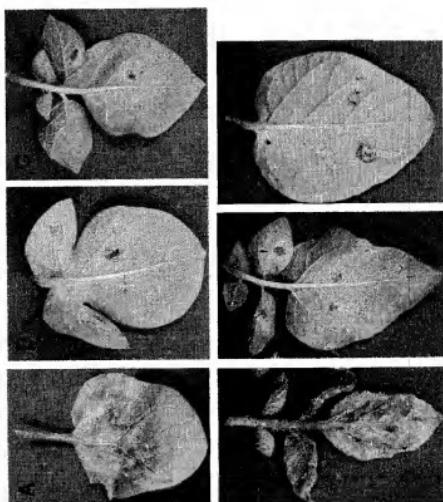


Figure 12 dia 5

Figure 13A

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TTCTGCCTTCGCAAGGATGCTGCCAATGTTCTGGATTCTAGAGAGAT 100
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CTGAAATTGAAGCTGACATTATTGTACATATGTCAGCTTTTATTG 200
CGATTGGAGAAGTTGAAGATAATGACTAGAAAAAGACAAGAGGTG 250
AGAATCTGCTTCAACCAATTGGATGATGGCAAAGACGTGGGTGT 300
AAATATGCTTACTAGCCCTGCCGTAATATGGATGACTGATAAGCTT 350
GTATCATCGITCTAAATCAGATGCCACCATGATGGATGAGCAATTGGGCT 400
TCCTCCCTTGAACTCTCTCATCTATCCAAGCATCGTGTGAAAGATG 450
TTTCTGGAGTACTCAATATGAGGTTCTCAGAATGTATGTCGAACAT 500
AAGAGATTCCATGGATTGATGAGTGTGATTAGCATGAGATGG 550
TTGAGAATGCTTATCTCTCAACTGATGGCTGAGAGAGTAGGACGC 600
TTCTTGGGAGGATCAGGCTGATGAAGACTCTCAACTCTCCGAGCTAGA 650
TGAGGATGATCAGAATGATAAACGCCCTCACTCTCAAGCTACACATC 700
TACTCTGAAGATTGTTCCAACGAAATTGGAGGTTATGCACATATGTTAT 750
AAAACCTTGAAGACTCAACTCAACAGAAATTGGACGCTTCAAGAA 800
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ATTCTGATGATGGAATTCTTATGATTCTCTGATATGCCGCC 950
CAAGGACTTATTCTCATGACAAACTTGTGATCTCTGGCTGTTG 100
TAGCCTTACCGGGAGGATGACTCAACTCTTGACGCGACTTGGAGAGAAA 1050
TTAAGGATTAAGAGAGTACTGACGAAACAAATTGCAACCTAAAGTT 1100
TCTGGAAAATATTGAACTCTTAAAGGAGATCTCAACATCTTATCTGA 1150
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TTCATGCATCTGCTCACAGAGACACTTAGATGATTGCTGGATTCTCAATG 1250
TTATTCAATTGCTTGTAAAGGACAAATTGGGCTGGTGAAGAAGACT 1300
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GATCTGGGAACGTGTTAGATGTGGCATATGAGGAAAGATGTCAT 1400
AGATTCATTATTGTCAGAGATAATGGTCTCTTACATCTTATTCTCAC 1450
TTCCCATACAGAAAGAGATGATGCTTATCAAAGAAGAGGTCTCTGAT 1500
TTACATGAGAAACATTCCAAGAACAGAGGTCTCATGTTGTGAACCTCTCC 1550
CAAGAAACCAGTTGAGAGCAAGTCATTGACAACGTGATAAAATAATTGTAG 1600
GTTTGGTGAGGAGACAAACTGTACTTAGAAGCTACCGAGTGGACCG 1650

Figure 13A (cont.)

GCAGAGCTAGATGTCATTGGATCATTGATGCCGGGTITAGGTAAAAC 1700
TACTTTGGCTAACAAAGTATAACATGATAATCAGTTCTAGCCATTCTG 1750
ACCTTCCTGCGATGGTGCACGGTCGACCAAGTATATGACGAGAGAAGTTG 1800
TTGGATAAAATTTCAATCAAGTTAGTAGCTCAAATTCAAATTTGAGTGA 1850
GAATATTGATGTTGCTGATAAACTACGGAAACAATTGTTGGAAAGAGGT 1900
ATCTTATTGCTCTAGATGACGGTGTGGGATACTAAACATGGGATGAGCTA 1950
ACAAGACCTTTCTGTGGTATGGAAAGGAAGTAGAAATTATTTGACAAC 2000
TCGAGAAAAGAAAAGTTGCTTGATGGAAAGCTCTACACTGATCCTCTTA 2050
ACCTTCGATTTGCTAAGATCAGAAGAAAAGTTGGGAGTTAGAGAAAAGG 2100
GCATTGGAACCGAGATTGCCCTGTGACTATTGGATGTTGGAAAGA 2150
AATAGCGGAAAATTTGTAAGGGCTTCTTGGTGGATCTGATTGCTG 2200
GAATCTGCTGGAGGAGAAAAGAGGTGTGTTGAGTTGTA 2250
AATAATTGCAATTCTTTATTTGAAGAAATGAAGTGGAAAGTGATGAAAGT 2300
TATAGAAAATGATTATGCCACCTTACCTGTACCTGAAGCCATGCTTGC 2350
TGTACTTTGCAAGTGC CGCAAGGACTGGTAA CGACA ATCCATGAGTTG 2400
AAACTTATTGGGGTTTGTAAGGATTGTGGAAAGACAGATATGAGAG 2450
TCTGGAGAAGTGGTGGAAAATTATTGGATGATTTAATTCCAGTAGCT 2500
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GCATTGATTATGATGATGTAAGAGCAGACTTGGCTTAATTGTCCTG 2700
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CATATAATGGAGATGAGCTGGACGCCACATTCTGTATACATTCTCAA 2800
GACACTGGGGCTTCTTGAACACTTGACCTGGATCCTCTTTATCATG 2850
GTTAAAGATTCTTCTGAATGAAATATGCACTTGTGAATATTGAGGTA 2900
CTTAAGCATTGGGGACAGAAGTTAAATCTCTGCTTGTCTTCTCAAACC 2950
TCTGGAAATCTAGAAATCTTGTGTTGGATAACAAAAGAATCAACCTTGATA 3000
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TGCTTGTTCTTCTTGTATGGATGCGAGATGAATCAATACTGATAGCAG 3100
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GCTTCATTCAAACTCAAGGAGTCATGGGATTATTCAACAGAGCAATT 3250
GGTCCCAGAAATTGGGATTCTCAACTGAACTGAGAAAACACTGTAGAT 3300
TTTGAAAGATCAGACAGTGGGCTCTGAGCCATAATCG 3350
GCCATGGGATTTCACCTTCTCGAGTTGAAAAGATTGCAATTGCGATG 3400

Figure 13A (cont.)

AATTTCTCTGACATCCGATTCACTATCACAAATAGCGAGACTGCTGAAAC 3450
CTTGAAGAGTTGTACCTTATCGTACAATCATCCATGGGGAAAGATGGAA 3500
CATGGGAGAAGAACGACCTTGAGAATCTCAAATGTTGATGTTGAGTC 3550
AAGTGATTCTTCAAGTGGGAGGTTGGAGAGGAATCTTTCCCACCCCTT 3600
GAGAAATTAGAACACTGTCGGACTGTCATAATCTTGAGGGAGATTCCGCTAG 3650
TTTTGGGGATAATTATCCCTGAAAATTATCGAACTTGTAAAGGAGCCCTC 3700
AACTTGAAAATTCCGCTCTCAAGATAAGGAATATGCTGAAGATATGAGG 3750
GGAGGGGACGAGCTTCAGATCCTGGCCAGAAGGATATCCGTTATTTAA 3800
GTAG 3804

Figure 13B

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TTGTAGAGTGTAACTGTAAAGTATTGAATTGTAGATATCATGTGGCTTT 100
AAAAATTGATATGTGTATTGGCAGGGAGTCATTTCTGCTCTCGCA 150
AGGATGCTGCCAATGTTCTGGATTCTTAGAGAGATAAAGAATGAAGAA 2001
GATCAAAGGCTGTTGATGTGGATCTGATTGAAAGCCTGAAATTGAAGCT 2501
GACATTATTTGATACATATGTCCAGCTTCTATTCCGATTTGGAGAAGT 3001
TTGAAGATATAATGACTAGAAAAAGACAAGAGGTTGAGAATCTGCTCAA 3501
CCAATTGATGATGATGCCAAGACGTGGGTGAAATATGCTTAC 4001
TAGCCTGCCGGTAATATGGATGACITATAAAGCTTGTATCATCGTTCTA 4501
AATCAGATGCCACCATGATGGATGACAATGGGCTTCCTCTTGAAT 5001
CTCTCTCATCTATCCAAGCATCGTGTGAAAGATGTTCTGGAGTGAC 5501
TCAATATGAGGTTCTCAGAATGTATGTCACATAAGAGATTTCCATG 6001
GATTGATAGTGAATTGTTGCAATTAAAGCATGAGATGGTTGAGAATGCTTA 6501
TCTCTTTCACACTGATGGCTGAGAGTAGGACCTTCCTTGGAGGAGA 7001
TCAGGGCTGATGAGAGACTCTCAACTCTCGAGGCTAGATGAGGATGATCAGA 7501
ATGATAAAGACCCCTAACACTCTCAAGCTAGCACATCTACTCTGAAGATT 8001
GTTCCAACTGAATTGGAGGTTATGCACATATGTTATAAAACTTGAAAGC 8501
TTCAACTTCAACAGAAATTGGACGCTTCATTAAAGAAGCTCTGGAAACCT 9010
CTCCGGACATTCTAGAGAAATCTGATTCTACATCATAAGAGCATATGATA 9510
ACTGTTATTACCCCTAACACTCTAGGGGCTGAAACATTCTAGTCATGAT 1000
GGAATTCTTATTGATTATCTCTCTGATATGCGGCCAAGGACTTTATTCTC 1050
ATCATGACAAACTTTTGATCTCTGGCTGTGTTGAGCATTACCGG 1100
GAGGTATCAACTCTGTCAGCGACTGGAGGAAATTAAAGGTTAAAGA 1150
GAGTACTGACGAAACAAATTGCAACCTAAAGTTCTGGAAATATTTG 1200
AACTCTTAAAGGAAGATCTAACAACTGTTTACTGAAAGTCCGGATTCA 1250
TCTCAATTGCTTCCCCTGAGTCATGGACCTCTCTCATGCTATTCAATTGCTT 1300
ACAGAGACACTTAGATGATTGCTGGATTCCAATGCTTATTCAATTGCTT 1350
TGATAAAGGAACAAATTGGGCTGGTGAAGAAGACTTGGAAATTCTAAAGA 1400
TCTTTTCTCGCAATTGAGCAAGGATTGTATAAAGATCTCTGGAAACG 1450
TGTCTAGATGTGGCATATGAGCAGGAAAGATGTCATGATTCAATTATTG 1500
TTCGAGATAATGGTCTTACATCTTATTCTCACTTCCATTACCGAGA 1550
AAGAAGATGATGCTTATAAGAAGAGGTCCTGATTACATGAGAACAT 1600
TTCCAAGAACAGAGGCTCATGTTGAACTCTCCAAAGAACCGATTG 1650

Figure 13B (cont.)

AGACCAAGTCATTGACAACGTATAAAATATTGTAGGTTTGGTGAGGAG 1700
ACAAACTTGTATCTTAGAAAGCTCACCGAGTGGACCGCAGACTAGATGT 1750
CATTTGCATCATGGTATGCCGGTTAGGTTAAACTACTTTGCCGTACA 1800
AAAGTATACAATGATAAATCAGTTCTAGCCATTGACCTTCGATGG 1850
TGCACGGTCGACCAAGTATATGACGAGAAGAAGTTGGATAAATT 1900
CAATCAAGTTAGTGACTCAAATTCAAAATTGAGTGAGAATATTGATGTTG 1950
CTGATAAAACTACGGAAACAAATTGTTGGAAAGGGTATCTTATTGCTTA 2000
GATGACCTGTGGGATACTAAATACATGGATGAGCTAACAGACCTTTCC 2050
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GAGTTGGCTGTGAGACTATTGGATGTTGGTAAAGAAAATAGCCGAAAATT 2250
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AATGAGATAGGTGATACCCCTACTTGCACATTCATGATCTTGATG 2650
CTTTGTTGATAAAAGCAAGAAAAGGAAAAGTGTGATCGGATAAGTT 2700
CAAGTCTCCATCAGATTGGCCACGTCAAATTAGCATTGATTATGAT 2750
GATGATGAAGACACTTTGGCTTAAATTGTCCTGTCGGCTCAAAATAA 2800
GAAAGGCATTCCGGTAAACACCTCTATTCTTGACCATAAATGGAGATG 2850
AGCTGGAGCACCATTTCTGATCACATTCAAGACACTTGAGGCTT 2900
CTTAGAACCTTGACCTGGATCCTCTTATCATGGTAAAGATTCTTT 2950
GCTGAATGAATATGCATGTTGAATCATTTGAGGTACTTAAGCATTGGGA 3000
CAGAAGTTAAATCTGCCTTGTCTTCTCAACCTCTGGAACTAGAA 3050
ATCTTGTGTTGATAACAAAGAATCAACCTTGATACTATTACCGAGAAT 3100
TTGGGATCTGTAAAGTTGCAAGTGTGCTGAGACTGCTTGTCTTTCT 3150
TTGATATGGATGCAAGATGAATCAACTGATAGCAGAGGACACAAGTTA 3200
GAGAACCTGACAGCATTAGGGAACTCGTCTTCTTATTTGGAAAGATAC 3250
AGAGGATATTTCAAAAGGCTTCCAATCTCAAGTGCTTCAATTCAAAAC 3300
TCAAGGAGTCATGGGATTATTCACAGAGCAATATTGGTCCGAAATTG 3350
GATTTCTAACTGAACTAGAAAACACTCACTGTAGATTGAAAGATCAA 3400

Figure 13B (cont.)

CACAAATGACAGTGGGTCCCTCGCAGCCATAATGGGCCATGGGATTTTC	3450
ACTTTCCTCGAGTTGAAAAGATTGCAATTGCATGAATTCCCTCTGACA	3500
TCCGATTCACTATCACAAATAGCGAGACTGCTGAACCTTGAAAGAGTTGTA	3550
CCTTTATCGTACAATCATCCATGGGGAAAGATGGAACATGGGAGAAGAAG	3600
ACACCTTGAGAATCTCAAATGTTGATGTTGAGTCAGTGATTCTTCC	3650
AAGTGGGAGGTTGGAGAGGAATCTTCCCACGCTTGAGAAATTAGAACT	3700
GTCGGACTGTCATAATCTTGAGGAGATTCCGCTAGTTGGGATATTT	3750
ATTCCCTGAAAATTATCGAACCTTGTAAGGAGCCCTCAACTTGAAAATTCC	3800
GCTCTCAAGATTAAGGAATATGCTGAGATAATGAGGGAGGGGAGCAGAGCT	3850
TCAGATCCTGGCCAGAAGGATATCCCGTTATTTAAGTAG	3890

Figure 13C

GATCTAGAACCTACCGAACCTCCCCTCGGTACAGCTCCCTCCAGTTCTACCA 50
TGAATTCTCATCCACTGTTCCTCTCAATGCCATTGAGATTCTCTCGA 100
TCTATGTCAAAAATCCCGAGATAAAACCTAGATCTGCTTCAAAATGCT 150
CTGATACCATGTAAATTCTAGTGAATTCTAACTAAACAAATGGAGAGAAATTCTATA 200
ACTATTTAGAAGACTGATTGAGAGGAAGAGAGAGAAAAATTCTATA 250
TTGAACTCATGAACCAAATGAATGAAAAAAATAATGAGAAGAACTATAC 300
TATTACAATCTATATCTATTATATTCTTAATCTGAAGCAGTTAATT 350
TAACTGACTCTAACAACTAGACTGATAGGTGTACATTTCTGTTAGTGCA 400
CTGCAGTGCATTAACTAACTGCTTAACATAAAAGAATCTGTTCTCGAACIT 450
CATTCGAATAGCTCAATGAGAACATGTGTACCTGTAAGACACA 500
CAGTAAAGGTATAATGAATAAATGAATAAAATCAAATAAAATT 550
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AATTAACAAAGACCCCTGAAATTAAAGCTGTAAATTGAAATTGAGT 650
ATAGTTAGGGGACATTGACTATTCTCATTTCTTATCTTTTCTT 700
AATTGTTGGCAGACAAAGTGAGGAGGCCACTGTAAATTGATTCATGCTT 750
TGCTTCTTGACTTTTGGAAACAATACTATGATCATATTGGCTTAAT 800
TATTCTCTGTTTATTCAGATTGAGCTCTATACATCTAAACAA 850
AGCAAGCAGAGGATATAGTTCATCAACTAAAAAGGTAGTCAACTCA 900
TCTAATTTGCTACTCTCATCTATTGAGTACAGTTATGGAAAAGTA 950
GAAGTGATGTAAGAAAATGAAAGAACTTAGTAGGTTAGTTGGATCTAA 1000
CAAAGAGAAAGGGAAATAATTGCAAGGAGAAAGAGAGAGGTAAATACCT 1050
ACTCACACCACCGATTACAAACAAACTAATTGTTGTTAGTTAATGT 1100
ATACCTTCACCTCATTAATTATTACTACCCATGATAAGTTGTTAAAT 1150
TTGGTATTAATATCGGTGCGGGTGAAATTCTACCGGGTGAGAGGGATGG 1200
GGTTGGAGAGTGTGGAGTGACAGAACAGATGTTTAGATTCTTAA 1250
GATGACGAAAGATTCCCCTCAATAATGAAATAATTACTATACGCTATT 1300
AGAGATAGAAAGGTTCGTACCACTGGTCTGTTCTGGATGAAACCCA 1350
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CTTCCACTAAATTAAAGTCCCTCTTAAGTTCGGTGAAAATAGTGAATTATT 1450
GATTATTCTTATCATTTCTCTCTCTCTGATAAAAGTTTATGFACT 1500
TTTTATGCACTCAGGTCTTGAGAACTGGAAAGGAAAGTAGAATCATGG 1550
AAAACGAAAAGATAATGAGAGAGCAACAACTCATGGTATGTTATTGA 1600
TAGAGTGAACGTAAAGATTGAATTGAGATATCATGTGGCTTTAAAAA 1650

Figure 13C (cont.)

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GCTGCCAATGTTCTGATTTCTAGAGAGATTAAAGAATGAAGAAGATCA 1750
AAAGCTGTGATGTTGAGACTGATTGAAACCGTGAATTGAAGCTGACAT 1800
TTATTTGACATATGTCAGCTTTCTTATTCCGATTGAGAGATTGAA 1850
GATATAATGACTAGAAAAAGAACAGAGGTTGAGAATCTGCTTCACCAAT 1900
TTTGGATGATGGCAAAGACGTCGGGTGAAATATGCTCTACTAGCC 1950
TCGCGGTAATATGGATGACTGTATAAGCTGTATCATGCTTCAAATCA 2000
GATGCCACCATGATGGATGAGCAATTGGCTTCCTCTGAAATCTCTC 2050
TCATCTATCCAAGCATCTGCTGAAAAGATGTTCTGGACTGACTCAAT 2100
ATGAGGTTCTCAGAATGTATGTCAGAACATAAGAGATTTCATGGATTG 2150
ATAGTAAATTGTCATTAAGCATGAGATGGTAGAATGTCCTTATCTCT 2200
GTTTCAACTGTGCTGAGAGATGGACGCTTCCTTGGAGGATCAGG 2250
CTGATGAAAGACTCTCAACTCTCGAGCTAGATGAGGATGATCAGAATGAT 2300
AAAGACCCCTCAACTCTCAAGCTAGCACATCTACTCTTGAAGATTGTC 2350
AACTGAATTGGAGGTATGCACATATGTTATAAAACTTGAAGCTTCAA 2400
CTTCAACAGAAATTGGACGCTTCATTAAGAAGCTCTGGAAACCTCTCG 2450
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GACACTTAGATGTTGCTGGATTCCAATGCTTATTCAATTGCTTGTGATA 2900
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CGATCAATTGGTATGCCGGTTTAGTAAACACTTTGGCTACAAAGTA 3350
TACAATGATAATCAGTTCTGACCTTCGACCTTCGTCATGGTCAC 3400

Figure 13C (cont.)

GGTCGACCAAGTATATGACGAGAAGAAGTTGTGGATAAAATTTCATC 3450
AAGTTAGTGACTCAAATTCAAAATTGAGTGAAGATATTGATGTTGCTGAT 3500
AAACTACGGAAACAATTCTTGGAAAGAGGTATCTTATTGCTTAGATGA 3550
CGTGTGGGATACTAATACATGGATGAGCTAACAGACCTTTCTGATG 3600
GTATGAAAAGGAAGTGAATTATTTGACAACCTCGAGAAAAGAAAGTTGCT 3650
TTGCATGGAAAGCTCACACTGATCCTCTAACCTTCGATTGCTAAGATC 3700
AGAAGAAAAGTTGGGAGTTAGAGAAAAGGGCATTTGGAAACGAGAGTT 3750
GCCCTGATGAACTATTGGATGTTGTAAGAAAATAGCCGAAAATTGTAAGA 3800
GGGCTCTTGGTGTGATCTGATTGCTGGAATCATTGCTGGGAGGGAA 3850
AAAGAAAAAGACTGTGTGGCTTAAGTTGAAATTTCATTCCTTTA 3900
TTTGAGAAGAATGAAGTGGAAAGTGTGATGAAAGTTAGAAAAGTTATGAC 3950
CACTTACCTGATCACCTGAAGCCATGCTGCTGACTTTGCAAGTGCGCC 4000
GAAGGACTGGTAACGCACAACTCATGAGTTGAAACCTTATTGGGGTTTG 4050
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ATTATTTGGATGATTTAATTCCAGTAGCTTGTAAATTGTTCAATGA 4150
GATAGGTGATTACCTACTTGCACACTTCTGATGATCTGTGATGACTTTT 4200
GTTTGATAAAAGCAAGAAAAGGAAAGTTGTGTGATCGATAAGTTCAAGT 4250
GCTCCATCAGATTGTCGCCACGTCAAATTAGCAATTGATTATGATGATGA 4300
TGAAGGACACTTGGGCTTAATTGTCTCTGGTTCAAAATAAGAAAA 4350
GGCATTCCGGTAACACCTCTATTCTTGACCATAAAATGGAGTGAGCTG 4400
GACGACCATCTTCTGATCACATTCTCATTAAGACACTTGGAGCTTCTTAG 4450
AACCTTGACCTGGAAATCTCTTATCATGGTTAAAGATTCTTGTGTA 4500
ATGAATAATGATGTTGATCATTTGAGGTACTTAAGCATGGGACAGAA 4550
GTTAAATCTGCTTTCTCTTCACAACTCTGGAATCTAGAAATCTT 4600
GTTTGTGGATAACAAAGATCAACCTTGATACTTACCGAGAAATTGGGG 4650
ATCTTGAAAGTGTGCAAGTGTGTCAGCAGCTGCTGTTCTTGTGAT 4700
ATGGATGCAGATGAATCAAACTGATAGCAGAGGACACAAAGTTAGAGAA 4750
CTTGACAGCATTAGGGGAACCTGTGCTTCTATTGGAAAGATAACAGAGG 4800
ATATTTCAAAAGGCTTCCAATCTCAAGTGCTTCATTCACACTCAAG 4850
GAGTCATGGGATTATTCACAGAGCAATATTGGTTCCGAAATTGGATT 4900
CCTAACTGAACTAGAAAACACTGTAGATTGAAAGATCAAACACAA 4950
ATGACAGTGGGTCTCTGCAAGGCTTGGGATTCTTCACTTT 5000
CCTTCGAGTTGAAAAGATTGCAATTGATGAAATTCTCTGACATCCGA 5050
TTCACATCAACAAATAGCGAGACTGCTGCAACCTTGAAGAGTTGACCTT 5100
ATCGTACAATCATCCATGGGAGAATGGACATGGGAGAAGACACC 5150

Figure 13C (cont.)

TTTGAGAAATCTCAAATGTTGATGTTGACTCAAGTGATTCTTCCAAGTG 5200
GGAGGTGGAGGAAATCTTCCACGCTTGAGAAAATTAGAACCTGTCGG 5250
ACTGTCATAATCTGAGGAGATTCCGCTAGTTTGGGGATATTATTC 5300
TTGAAAATTATCGAAGCTTGAAGGAGCCTCAACTTGAAGAAATTCCGCTT 5350
CAAGATAAGGAATATGCTGAAGATATGAGGGGGAGGGACGAGCTTCAGA 5400
TCCTTGGCCAGAAGGATATCCGTTATTAGTGGTTGAGCATTATG 5450
GTTGAAAAGTAGATTGCAGTTGCTGGTAGATTGTATATGGTTAAGAAA 5500
ATTCTGTTACAGTTGCTTATGAAACATTTTATTGACTTTCTGAGTTTC 5550
TTTAGAAAACCTAGAACCTTTAACAAAAATTAGTTTATAAAATAC 5600
AATGTTGAAATTGCTTGGCTGTCACACTGGCTGAAGTCTCATATGCT 5650
CAGAGCACTATCGTTCAACCTCAATCAAGGTACTGATTAAAATGACATC 5700
TATACTTATATCACAAAACCAAGCTTACATCTCAAAGCTAGGCC 5750
AGGAAGTGAAGAGGTGTAGAGACCTTATAAGCACTCATGACTTCCCTT 5800
CTCGAACATTCACCAACAGTAGGCCGAAATCCCACCTGAAAGAAAATAA 5850
GTGTTTGTATTCAAATTAACTCTCGTAGTAGAACACTGAAATACCTTCT 5900
TCTAAACGTTCAACAATTGGGATTCCAGCACTCAAAGTGAATGAAAGGT 5950
TCACATTAATCTCAAAAAGAATTACGACAATTATGACCACAAGTACAT 6000
TGACAGCACCAATTCAACAGAAAGAACAGTCATGTCATCTCATCAA 6050
TAATCCGAGTGTGCAACCTCTTCCTGACACTGTCTGTATATGTAAGT 6100
TTCTCACACAGGGCAACTTCTGCTCTGCTATCTGGATGACCCCTCTGTC 6150
TATAACTTCAACATTAAAGGCCCTGGCAACTTCTGGACCAACAGCTTACATG 6200
CTTCAAAACTTACTGAACAATTAGACATCCTAAAGGGGATCGCATTGTC 6250
AGCTTGCAGCATTAAGCCAAACAGGCCATCTGCCAAAGGGGCACTCT 6300
AATCTGAAATTGAAAAATTGTTGTTGATGACTTTCTGACATCCG 6350
ATGCAACTATCAACAATAGCAAGACTGGAGGTGGAGAGCAATTCTTATT 6400
ATACAATCATTCAGGGAGAAGAATGGAACATGGGGGGAGGAAGACACTTTT 6450
GAGAACTGAAATTGTTAGGCCACAAGCTACAGAAGTATTGAAATTGT 6500
CATGAATATCAACATTCTCATCCTAGTTAATTCTTCAATTTTTAAT 6550
AGACTCTCATTTTAATCAATAATTCTCTATTGACTTCTTTCTG 6600
CAGGGTGCACCTTAAATTCAAAAGTATTAGGATTGTGACAAACTCGAA 6650
AAATATCTTAATGAGGTGAAGTTGAGCAGTCAGCAGATGGTGGTTCAA 6700
CTCTAAGTTGACAAGCACATCATCTCCGGAGGGCATTCAAGCTCGAT 6750
GCATATGGTTAGTGTGGCTAGAGCAGACAGGATGTATTACCTGGATATCT 6800
ACCAAGACAAATCCACAACTAGTTTATGTCAGCAAAATCATGAAGTAAC 6850
TCCCGATAGAACAGTAAAGCAAGATGTGAGGTGTATCTGACTCTAAG 6900

Figure 13C (cont.)

AGATTGTACATTCCTCTTGAGATTTTACTGCTAATAACAAATTACACC 6950
TCAGAACCGAATCTAGAATTCTAGAGCATGAATGCACCACTAATGAAAG 7000
GAGAAAAAAGGAAGTATGAACTGGAAATTGATCCTGTTCTAGGTATA 7050
TAAAATTTATCATTCAACTATACTTCATTGCAAAACAACTCTTTGCC 7100
ATTATTTCTCAACAAGGGCTCTAATATTGCTAAACTAAAGACTGTCAA 7150
AAGGTAAGTCATCTCAACTCTCTGTTACTTTATCTAAAGGGGAAC 7200
TATGAAAAAACAGAACATCAGGAATGTCCTGAAACAAAGCACCTCAT 7250
GCACAAACATCCACAGTGGTAGGAAATGGAGGGATCCCATCCAGG 7300
AGGATACTGTAGAAAAATTTACTGGCTCTTACCGCTCAACCCATGAT 7350
CTATAGTTACATGGAGACACTTTATGGTCTGCTGAGGCTCCGTCAA 7400
TTCTCATAAACACACACACAAAGTCATCAGACATCATCTTCATTCA 7450
AAGCTGACAATCTCCACAACTGTAGTCACATTGTAATATGAAATATTAGC 7500
CAGGTAGACGTACATATTACAAAATGGATTCTCTATATAATATGGTTT 7550
GAAGGATGAAACATGATGGGGAGGGTAGATAAAATAATATGAGGCAT 7600
AAAAATAGGAAAGATATTGTAGTGAGAGGTTTGACTTTATGCTGCT 7650
TTTGATCTTCAGTTCTGTATTCTTTCTACTGCTTTCTCTCTTTTC 7700
TCCTGAGTAAAGTTTATGTAGGTACTTTTATACGTCCGATCGTGAGAA 7750
CTTGAAAGAACGCTCTATAGCTATGTTAGGTGCCACATAAAAAATG 7800
AAATATTACAAAAACCTGATAATAAAATACACTAATCTAAGATATTCA 7850
TGCAACATACATGCAAAATATATATATAAATTTCATGAAATTATAA 7900
CAAATAATAGATGTGAACATATAACTTTAAAATAATATTACATCCATAA 7950
AGCTTAAATTCTAGATC 7967

Figure 13D

GATCTGCTTCAATGCTGTACCATGTAATTCACTGAATTCTAACTA 50
AACATGGAGAATTAACTATTAGAAAGACTGATTGAAGGAGAAGAA 100
GAGAGAAAAATTATATTTGAACTCATGAAACAAATGAATGAAAAAAT 150
AATGAGAAGAACTATACTATTACAACTATATATCTTATTATCTTA 200
ATCTGAAGCAGTTAATTAACTGACTCTAACACTAGACTGATAGGTGTA 250
CATTTCTGTTAGTCGACTGCAGTGCAATTAACTACTGCTAACATAAA 300
GAATGTTGTTCGAACCTCATCGAATAGCTTCAATGAGAACATGT 350
GTACCTGAAAGACACACAGTAAAGGTGTTATAATGAATAATATGAAT 400
AAATCAAATAAATTAATTTAAAAACACATCCAATTACATTGGAGG 450
TCCTGAAAATCGATGTAATTAAACAAAGACCCCTTGAAATTAAAGTCIG 500
TAATTGAAAATTGAGTAGGTAGGTTAGGGGACATTGACTATTTCCTATT 550
TTCTTATCTTTCTAATTGTCGAGACAAGTGAGGAGGCCACTG 600
TAATTGATTCACTGCTTTGCTTCTGACTTTGGAACATACTATGCA 650
TCATATTGGCTTAATTATCCCTGTTTATTCCAGAAATTGGACCTC 700
TATACATCTAATAACAAAGCAAGCAGAGGATATAGTTCATCAACTAA 750
AAAGGTTAGTCAACTCATCTAATATTGCTACTCTCATCTATTGAAGT 800
ACAGTTATGGAAAGTAGAAAGTGATGTAAGAAAAATGAAAGACTTTAGT 850
AGGTTAGTTGGATCTAACAAAGAGAAAGGGAAATAATTGCAAGGAGAAAG 900
AGAGAGGTTAAACTACTCACACACCAGATTACAACAAACTTAA 950
TTGTTGTTAGTTAAATGATACCTTCACCTCATTTAAATTATTACTTACCCA 1000
TGATAAGTTGTTAATTGTTGATTAATATCCGGTGCAGGTGAATTCTTA 1005
CCGGGTGAGAGGGGATGGGGTGGAGTGTTGGAGTGAAACAGAACAGATG 1100
TTTGTAGTTTCTAACATGACCAAGTTCCCTCACTAATGAAATA 1150
TATTACTATACGCTATTAGAGATGAAAGGTTGGTACCGACTTGGCTCG 1200
TTCTGGATGAAACCCATTTCACAGTCATTCTTCAATTCAATCGC 1250
AAAGTGACCTTATCATCTTCACTAAITAAGCTCTTAAGTTCGCGTG 1300
AAAATAGTGAATTATTGATTATTCTTATCATTTCTTCTCCTG 1350
ATAAAAGTTTATGACTTTTATGCATCAGGTCTGAGAACTTGGAAAGG 1400
AAAAGTAGAATCATGGAAAACGAAAAGATAATGAGAACGAAACACTC 1450
ATTGGTATGTTATTGATAGAGTGAACTGTAAGTATTGAAATTGAGATA 1500
TCATGTGGCTTTAAAATTGATATGTGTTATTGGCAGGAGTCATT 1550
CTGCTCTCGCAAGGATGCTGCCAATGTTGGAATTCTAGAGGATTA 1600
AAGAATGAAGAAGATCAAAGGCTGTTGATGTTGATCTGATTGAAAGCCT 1650

Figure 13D (cont.)

GAATTGAAAGCTGACATTATTTGTACATATGTCAGCTTCTTATTCGG 1700
ATTTGGAGAAGTTGAAGATATAATGACTAGAAAAAGACAAGAGGTGAG 1750
AATCTGTTCAACCAATTGGATGATGATGCCAAAGACGTGGGTCAA 1800
ATATGTCCTTACTAGCCCTCGCGGTAAATGGATGACTGTATAAGCTTG 1850
ATCATCGTTCAAAATCAGATGCCACCATGATGGATGAGCAATTGGCTTC 1900
CTCCTCTGAATCTCTCATCTATCCAAGCATCGTGTGAAAGATGTT 1950
TCCTGGAGTGAATCAATAGGGTCTTCAGAATGTATGTCGAAACATAA 2000
GAGATTCATGGATTGATAGTGAATTGTTGATTAAGCATGAGATGGTT 2050
GAGAATGCTTATCTCTTTCAACTGATGGTGGAGAGTAGGAGCCTT 2100
CCCTGGGAGATCAGGTGATGAAGACTCTAACCTCCGAGCTAGATG 2150
AGGATGATCAGAATGATAAAGGCCCTAACCTTCAGCTGACATCTA 2200
CTCTTGAAAGATTGTTCAACTGATGGGGGTATGCACATATGTTATAA 2250
AACTTTGAAAGCTTCAACCAAGAAAATTGGACGCTTCATTAAGAGC 2300
TCCCTGAAACCTCTCGGACATTCTAGAGAATACTGATTCACAA 2350
GAGCATATGATAACTGTTATTACCCCTAACACTCAGGGGCTCGAACAT 2400
TCATGTCATGATGGAATTCTATTGATTATCTCTCTGATATGCCGCCA 2450
AGGACTTTATTGATCATGACAACATTGGATCTTGGCTCGTGTGTA 2500
GCACCTACCAGGGAGGTATCAACTCTGTCAGCGGACTTGGAAAGAGAAATT 2550
AAGGATTAAGAGAGTACTGACGAAACAAATTGTCACCCCTAAAGTTT 2600
TGGAAATATTGAACTCTTAAAGGAAGATCTCAAACATGTTATCTGAAA 2650
GTCCCCGATTCTCATCTAAATTGCTCTCCCATGAGTGTGACCTCTCTT 2700
CATGCACTGCTCACAGAGACATTAGATGATTGCTGGATTCCAATGCTT 2750
ATTCAATTGTTGATAAAGGAACTAATTGGCTGGTAAAGAAGACTTG 2800
GAATTCTAAAGATCTTTCTCGGAATTGAGCAAGGGATTGTATAAAGA 2850
TCTCTGGAACTGTTCTAGATGTCATGAGCAAAAGATGTCATAG 2900
ATTCAATTATTGTCAGATAATGGCTCTTACATCTTATTTCTCACTT 2950
CCCATTACCAAGAAGAGATGATGCTTATCAAAGAAGAGGTCTGATTT 3000
ACATGAGAACATTCCAAGAACAGAGGTCATCGTGTGAACTCTCCA 3050
AGAACCCAGTTGAGAGCAAGTCATTGACAACATGATAAAAATTTGAGGT 3100
TTTGGTGGAGGAGACAAACTTGATCACTTAAAGCTCACCAAGTGGACCGGC 3150
AGATCTAGATGTCATTGATCATTGGTATGCCGGTTAGGTAAAACCA 3200
CTTGGCTACAAAGTATAACATGATAAATCAGTTCTAGCCATTGCAAC 3250
CTTCGTCATGGTGCACGGTCGACCAAGTATGACGAGAAGAGTTGTT 3300
GGATAAAATTTCATCAAGTTAGTGAATCAAATTCAAATTGAGTGAGA 3350
ATATTGATGTTGCTGATAAAACTACGGAAACATTGTTGGAAAGAGGTAT 3400

Figure 13D (cont.)

CTTATTGCTTAGATGCCTGTGGGATACTTAATACATGGCATGAGCTAAC 3450
AAGACCTTTCCCTGATGGTATGAAAGGAAGTAGAAATTATTTGACAACTC 3500
GAGAAAAGAAAGTTGCTTGCATGGAAGCTACTGATCCTCTAAC 3550
CTTCGATTGCTAAAGATCAGAAGAAAGTTGGAGATTAGAGAAAAGGCC 3600
ATTTGGAACAGAGAGTTGCCCTGATGAACATATTGGATTTGGTAAGAAA 3650
TAGCCGAAAATTGTAAGGGCTTCCTTGGGGATCTGATTGCTGGA 3700
ATCATTGCTGGGAGGGAAAAGAAAAAGAGTTGTTGGCTTGAGTTGAAA 3750
TAATTGCTATTCTTATTGAGAATGAAGTGGAACTGATGAAAGTTA 3800
TAGAAATAAGTTATGACCACCTTACCTGATCACCTGAACCCATGCTTC 3850
TACTTTGCAAGTGCAGGAAGGACTGGTAACGCAATCCATGAGTTGAA 3900
ACTTATTGGGGTTTGAGGGATTGAGGAAAGACAGATATGAGAGTC 3950
TGGAGAAGTGGTGAAGGAAATTGATGATTTAATTCCAGTAGCTTG 4000
GTAATTGTTCAATGAGATAGGTGATACCCCTACTTGCCAACCTCATGA 4050
TCTTGTCATGACTTTGTTGATAAAAGCAGAAGGAAAGTTGTTG 4100
ATCGGATAAGTCAGTGCCTCATCAGATTGTCACGPAAATTAGC 4150
ATTGATTATGATGATGATGAGAGACCTTTGGCTTAATTGGCTCTGTT 4200
CGGTTCAAATAAGAAAGGCTTCGGTAAACACCTCTATTCTTGACCA 4250
TAAATGGAGATGAGCTGGACGACCATCTTCTGATACATTCTAAGA 4300
CACTTGAGGCTTCTTAGAACCTTCGACCTGGAACTCTCTTTATCATGGT 4350
TAAAGATTCTTGTGATGAAATATGCACTGGTGAATCTTGGACT 4400
TAAGCATTGGGACAGAAGTTAAATCTGCCTTGTCTTCTCAAACCTC 4450
TGGAAATGAAATCTTGTGATGAAATCAAAGAATCAACCTTGATAC 4500
ATTACCGAGAATTGGATCTTGTGAAATGCACTGGTGTTCACGACTG 4550
CTTGTCTTCTTGATATGGATCAGCATGAAATCAACTGATAGCAGAG 4600
GACACAAAGTTGAGAACCTGACGACATTAGGGGAACCTCGTGTCTTCTA 4650
TTGGAAGGATACAGAGGATATTCTAAAGGCTTCCAACTTCAAGTGC 4700
TTCATTTCAAACCAAGGAGTCATGGGATTATTCAACAGACAAATTGG 4750
TTCCGAAATTGGATTTCTTCAACTGAACTAGAAAAACTCACTGTAGATT 4800
TGAAAGATCAAACACAAATGACACTGGGTCTCTGCAGCCATAATCGGC 4850
CATGGGATTTCACTTTCTTGCAGTTGAAAGATTGCAATTGCAATGAA 4900
TTCCCTGACATCCGATTCACTTCAACAAATAGCGAGACTGCTGAAACCT 4950
TGAAAGATTGTAACCTTTCTGACAAATCATCCATGGGAAGATGAAACA 5000
TGGGAGAAGAAGACACCTTTGAGAATCTCAACATGTTGATGTTGAGTC 5050
GTGATTCTTCCAACGTGGGAGTTGGAGAGGAATCTTCCCACGCTTG 5100
GAAATTGAACTGTCGGACTGTCATAATCTGAGGAGATTCCGCTAGTT 5150

Figure 13D (cont.)

TTGGGATATTATTCCTTGAAAAATTATCGAACCTGTAAAGGAGCCCTCAA 5200
CTTGAAGAATTCCGCCTCTCAAGATTAAGGAATTATGCTGAAGATATGAGGG 5250
AGGGGAGAGCCTCACAGATCTTGCCAGAAGGATATCCGGTATTAAAGT 5300
AGTTTTGAGCATATTGGTTAAAGTAGATGCACTTGTGGTAGAT 5350
TGTATATGGTTAAGAATTCTGTACAGTGTATGAAACATTTTATT 5400
TGACTTTCTGAGTTCTTTAGAAAATCAGAAGTTTAAACAAAAATT 5450
ATAGTTTTATAAATACAATGTTGAGCTTGTCACTGGTAGCT 5500
CTGAAGCTCATATGCTCACAGGACTATCGTCAACCTCAATCAAGGTAC 5550
TGATTAAAATGACATCTATACACTTTATCACAAACCCAAGGAACTTTC 5600
ATCTCAAAAGCTAGGCCAGGAAGTGAAGAGGTTGAGAGACTTATAAGC 5650
ACTCATGACTTCTCTTCGAAACATCAACCAACCGTAGGCTGAATCCCC 5700
ACTCTGAACGAAAATAAGTGTGTTATPCAATTAAACTCTCGTAGTAGA 5750
ACACTGAATACCTCTCTCAAAAGCTCAACAAATGGGATTCCAGGACT 5800
CAAAGTGAATGAAAGGTTCACTTAATCTTCAAAAGAAATTAGCACAATT 5850
CATGACCACAAAGTACATTGACAGCACCAATTCAACAGAAGAACAGTCA 5900
TGCTGCATCTCATATAATCCGAGTGTGCAACCTCTTCTGACACTG 5950
TCCTGTATATGTAAGATTCTCAACAGGGAACTTTCTGGCTCGTATCT 6000
GGATGACCCCTCTGGCTATAACTTCACATTAAAGCCCTGGCAACTTCTG 6050
GACCAACAGCTTACATGCTTCAAAACTTACTGAACAATTAGACATCCAA 6100
GGGATCGCATTGCTCGAGCTTTCGACAGTCAAGGCTCATCG 6150
CCAAAGGGGAGCTCTAATCTGAATTGAAAAAAATTGTTGTTGTATGA 6200
CTTCTCTGACATCCGATGCACTTACAAATAGCAAGACTGGAGGTTG 6250
GAGAGGATCTTTTATTAATGACATCCTGGAGAAGATGGACATGG 6300
GGGAGGAAGACACTTTGAGAATCTGAAATGTTAGAGCCACAAGCTAC 6350
AGAACTTGAATTGTCATGAATATCAACATTCTCATCTACTTAAATT 6400
CTTTTCATTTTAATAGACTCTCATTTAATCAATAATTCTTCTAT 6450
TTGTGACTCTTTCTGAGGTGGCAACTTAAATTCAAAAGTATAGGA 6500
TTGATGACAAACTCGAAAAATTATCTTAATGAGGTGAAGTTGAGCAGTCA 6550
GCAGATGGTGGTCCAACCTCAAGTTGACAAGCACATACTATCCGGAGG 6600
GCGATTTCAAGCCTGATGCAATTATGTTAGTGTGGCTAGGCAGACAGGT 6650
GTATTACCTGGATATCTACCAAGCAATCCACAATCAGTTTATGTCAA 6700
GCAATACATGAAAGTAACTCCGATGAGAACAGTAAAGCAAGATGTGAGG 6750
TGTATCTGACTCTAAGAGATTGACATTCTCTTGTGAGATTACTGC 6800
TAATACAAAATTACACCTCAGAAGCGAATCTAGAATTCTAGAGCATGAA 6850
TGCACCAACTAATGAAAGGAGAAAAAGGAAGTATGAAGCTGGAAATTGAT 6900

Figure 13D (cont.)

CCTTGTCTAGGTATATAAATTATCATGAACTATACTTCATTAGC 6950
AAACAACCTCTTGCATATTCTCAAACAAAGGGCTCTAATATTGCT 7000
AAACTAAAGACTGTCAAAAGGTAAAGTTCTCATCTCAAACCTCTTGTTAC 7050
TTTATCTAAAGGGAACTATGAAAAAACATCAGGAATGTCGGT 7100
AAACAAGCAGCCTCATGCACAAAACATCCAACGTTGGTAGGATAATGG 7150
AGGGATCGCATCCCAGGGAGGACTGTAGAAAAAATTAGTGGCTCTTC 7200
CCGCTCAAACCCATGATCTATAGGTACATGGAGACAACCTTATGGTTGC 7250
TCGTAGGCTCCGTCATTCATAAAACACACCAAAGTTCATCAG 7300
ACATCATCTTCAATTACAAGCTGACAATCTCCACAAAGTCCTAGTCAC 7350
GTAATATGAATATTAGCCAGGTAGACGTCACATTACAAATTGAGTTT 7400
CCTATATAATAGTGGTGAAGGAATGAAACATGATGGGGAGGGTAGATAA 7450
ATAATATAATGAGGCCATAAAATAGGAAAGATAATTGTAGTGAGGGTTT 7500
TGACTTTTATGCTGCTTTGATCTTCAGTTCTGTATCTTTCTAC 7550
TGCTTCTCTTCTTCCTGACTAAAGTTTATGTAGGTACTTTTAT 7600
ACGTCGGATCGTGAGAACTTGAAGAAAGCTCTATAGCTATGTTAGGT 7650
GCCACATAAAAAAATGAAATTACAAAAACCTGATAAATAAACACAC 7700
TAATCTAAGATATTCACTGCAACATACATGCAAAATATATATAATAAAT 7750
TTTCATGAAAATTATAACAAAATAGATGTGAAACATATAACTTTAAAAA 7800
TAATATTACATCCATAAAAGCTTAAATTCTAGATCCATCTATGCTTGTATG 7850
ATGCACTAGCTCGAAATCTCCATCAAGTGTAAACTACATATTCTTC 7900
AAATTATATGAAAACGATAATTAAAGGTGAAAACCTTATAAAGATATC 7950
GTGTGGTGTGTGAGTGAGGTGACAAAAATAAGTTGTGTGATTTCAAAA 8000
AGTTTATAACGAAAATTCACATGCTTGAATTATGAAACCTTAAATGT 8050
TGTAACGAAAATTATCACATTATGTAGTTACTGTGATGTTAACTGAT 8100
ATATAAAATAATATTGGTATTCTCTTCATCTGCGACATAATATGTTTT 8150
TCATCTTTTCAATATACAAAATAGAATTATTATTTGTGATCTTT 8200
TAAGTACAATTATTCATATGTATAGTACA AAAAATATTACTGT 8250
GGTAAAGTAATGGAAATAAGGGTCATAATTGAAATAACAATATACATA 8300
CTATGTTAAAGTATTTTTATAGTTAAATTCTCTAGAGTACTTGATTTC 8350
TACATACAAAATCTAAATTCTGAAAAAATTAATTAAGGTAAATAAGA 8400
GTTCTTTATTAAATTAAATTAGTTATAATAACTAAACTAAGGTAAATAAGA 8450
CCTTAGTTAGTTAATGTGTCTCTGTGATTTCGGTCATAGTCAGGG 8500
TGTACTTGTGCCATTATCCCCAAAATGAGGAAGATACTCAAAGATATATAA 8550
AATTAAATTAAATTGGGGTTATGAATATAAAAAGTATCAGAGTTCT 8600
ACATATAAAGAGTAAACAAATTGAAATAATTAAATTATGAGATATGAAG 8650

Figure 13D (cont.)

GGGGACATTAAAGAAAAATAATAAATAAATTAAGGCTATAAATT 8700
CATATAACATAATACCAATAAGCCGTAGAATATCTCCGTATAATGCATA 8750
AACTATAAAATCACAAATGATAACTCACATACAAATATTTTTGATAAA 8800
GAATTGAATGTTGTAATAGAATGGAGATAACTTGTGCTTATTCATT 8850
ATGTAAGACGTATAATACAATAACATGAGCTCTAATTAAAGGAAA 8900
CTAAATAAGGAAGGAATCAAAAAATTATGTCATATCCCTACATATCTG 8950
CTAGAGATTCTATCATATCCTTACATATCTGTTAACGCTATGCTACACCT 9000
AAAGGTCTACAACTCATTTGTAACACTCCCCCTCAAGTTAGAGCATAG 9050
ATATTATTCTTCAACTTGTACAAAGATAATCAACTCGAGTTCCATT 9100
CAACGCTTTGTGAACAATCAACTAGTTGCTCTCTGTTCACTTAGC 9150
TAGTGGATATCAGGTTCTATGAACTCTCTCAGAATAAAATGAGCTCA 9200
ACCTCAATATGTTAGTTCTGAGACACGGGATTCAAGGCAATATG 9250
GAGGCGAACCTGATTATCATACTAGAGTTTGATGGTATATGATGCTTCA 9300
ACCCATTCTGTAAAGATAATGATCCACATGATCTCACCCATAGAC 9350
TGTAACATAACTCTGACTTTGATTCGCACTAGATCAAGATAACAATT 9400
TTGCTTTTACTCCTCCATGATACCAGGTTCTCATCCAACAAAGACACAAT 9450
AACTTGAGTAGATCTTCTATCAATTTCGATCCCAGCCAACTCGACATCT 9500
GCAAAACACTCAATATGAGTATGGTCGTGATTTGATACTATATTCAAG 9550
ACTAGGAGTTTCTTCAGTAACATAGAATATGTTCAAAGCTGCCAGT 9600
GTTTGACGTAGGTTGCAAACATGAACTAGCTAACACACTTACTGCAAAG 9650
CAATATCAAGATGAGTCACAATAAGGTAGTTAACCTTCAACTAACCTT 9700
TTGTATCTCTATGGATCATTTAAAGGATCGTCGTATCTTCATAAGATG 9750
CATATTGGAACCATGGAGAACCTCAGGTTGGCTGCCATCTTCATT 9800
TTCTGCAAGTAGATCGAGAGAAATATTCCTAAGACAAAAGAATTCCC 9850
TTTTGTTTCTATTTACTCTACTCCAAAATGTTCAATTGACCCAA 9900
GTCCTTGTATGAAACCAAGTATGCGAGGAAAGACTTGAGGGAGAGATC 9949

Figure 14

A



B

MEKRKDNEEANSLESFSALRKDAANVLDFLERLKNEEDQKAVDVDLIE
SLKLKLTFICTYVQLSYSDELKFEDIMTRKRQEVENLLQPILDDDGKDV
GCKYVLTSLAGNMDDCISLYHRSKSADATMMDQQLGFLLLNLISHLSKHRA
EKMFPGVTOTYEVLNQNVCGNIRDHFGLIVNCCIKHEMVENVLISLFLQMLAE
RVRGRFLWEDQADEDSQLSELDEDDQNDKDPQLFKLAHLKKVPTTELEV
MHICYKTLLASTSTEIGRTFIKKLLETSVDILEYLIHLQEHMITVTPN
TSGARNIHVMMEFLLIILSDMPPKDFIHHDKLFDLLARVALTREVSTL
VRDLEEKLLIKESTDETNCATLKFLENIELLKEDELDKHKVYLKVFDSSQYC
FPMSDGPLFMHLLQPHLDLIDDSNAYSIALIKEBQI_GLVKEDLBFTIRSFF
ANIEQGLYKDLIWERVLDVAYEAKDVIDSIIVRDNGLLHLLIFSLPITRKK
MLLKEEVSDLHENISKNRGLIVVNNSPKKPVESKSLTTDKIIVGFGEET

LZ

NLILRKLTSGPADLVIDVISI1gmpglgkttlaYKVYNDKSVSSHFDLRAW
CTDVQVYDEKKLLDKIFNQVSDNSKLSENIDVADKLRLKQLFGkryliv
lddvwdTTNTWDDELTRPFDPGMKGsriilrrEKKVLAHKGKLYTDPLNLR
LLRSEESTWELLEKRAFGNGESCPDELLDVKGKEIAENCKgplvvdiagI
IAGREKKVSWEVNNLHSFILKNEVEVMRVIIESIDHLPDH1kpcll
yfasAPKDWWTTIHEKLILINGFGEVKDMKSLEEVVKYIYLDLISSS
LVICFNEIGDYPTCQlhdhvhdFCLIKARKEKLCDRRISSAPS DLLPRQ
ISIDYDD

DEEHFGILNFVLFGSNKK 1
PHSGKHLYSILTINGDE 2
LRHLRLRTLHLESSFIMVKDSLNE 3
ICMLNHRYLISIGTEVKSLPLSF 4
SNBLWNLEIILFDNKESTLIL 5
LPRIWDLVKLQVLFFTAC 6
FFIMDADESIILIAEDTH 7
LENLTALGEVLVSYWKDT 8
EDIFKPLPNLQVLFHFK.LKESWDYSTEQYWFPK 9
LDFLTELKEKLTVDFERSNTNDGSSAAINRPWD 10
FHFLPSSLKLRLQIHEFP..LTSDSLST 11
IARLLNIEEELYLRTI.IHGEENNMGE 12
EDTFENLKCIMLSQVI.LSKWEVG 13
EESFPTLEKLELSDCHNLEELPSS 14
FGDIYSLKIIELVRSQPQLENSALK 15

IKEYADMRRGGDELQILGQKDIPLFK

M11.1 VL S I D V --- N L K QV KI MA
57 M11.2 I VL S I I --- N L K QV KL MA
57 Rpi-blb2 MEKRKDNNEEANSLESFPSALRKDAANVLDFLERLQNEEDQKAVDVLIESLKLKLTFICT
60
M11.1 C P Q L ----- F TS
109 M11.2 Y F Q N SL ----- TS
109 Rpi-blb2 YVQLSYSDELKFDIMTRKRQEVENNLQPILDGGKEVGCCKVLTSLAGNMDDCISLYHR
120
M11.1 Y I D Y H I I G
169 M11.2 Y I D Y H I L G
169 Rpi-blb2 S-KSDATMMDEQLGFLLINLNSHLSKHRAEMFFPGVTQEVLQNVCGNIRDPHGLIVNCCI
179
M11.1 P D H D T R E R SR
229 M11.2 P H T R EH R SR QT
229 Rpi-blb2 KHEMVENVL\$LFQIMAERUVGRFLWEDQADEDSQLSELDEDQNDKDPQLFKLA\$LLLKV 239
M11.1 V I TN A V L Q P V S
289 M11.2 TN A V I Q L P S L
289 Rpi-blb2 PTELEVMHICYKTLKASTSTEIGRFIKKLLETSPDILREYLIEBLQEHMITVITFNTSGAR
299
M11.1 L - D GV EP N GRNQ
348 M11.2 L - H GT N GRNQ
348 Rpi-blb2 NHVMMMFLLIILSDMPPKDFIHMDKLFDLLARVVALTREVSTLVRDLEEKLRIKESTDE
359
M11.1 DL K AL C HI N
408 M11.2 DL X A N C HM N
408 Rpi-blb2 TNCATLKPLENIELLKEDLKHVYVLVPDSSQYCFCMSDGPLFMGHLLQRHLDLJDSNAYS
419
M11.1 E E Q X VD-A A
467 M11.2 S E E SQE GDAA I A
468 Rpi-blb2 IALIKEQIGLVKEFIRSSFPAN-IEQGLYKDLNWERVLDVAYEAKDVIDSIIIVRDNGLL
478
M11.1 I IK I A D P D R T E
527 M11.2 I IK I A D P D R I E
528 Rpi-blb2 HLIFSLPITRKMMI LIKEEVSDLHBNENISKNRGLIVVNNSPKPVESKSLTTDKIIVVGFGEE
528
M11.1 S T S R GC
567

FIGURE.15

M11.2	T	S	R	G D
588				
Rpi-blb2	TNLILRKLTSGPADLVDIVISIXgmpgkttlatKVYNDKSVSSXFDLRAWCTVDQVYDEK			
598				
M11.1	NP S D		T	ESK
647				
M11.2	T S G D N		T L	EAK
648				
Rpi-blb2	KLLDCKIFPNQVSNSNSKLSNEIDVADKLRLQLFGKrylivliddvwDTHWDEL/TRPFPDM			
658				
M11.1	E N D PD			
707				
M11.2	E N D PD	D T		
708				
Rpi-blb2	KGSRIIILTTREKKVALNGKLYTOPJNLRLLRSEESWELLEKRAFGNESC PDELLDVGKEI			
718				
M11.1	A V R QSS S NS	L H		
767				
M11.2	A V R QSS S NS	L H		
768				
Rpi-blb2	AENCKgipplvvdliqgTIAGREKKSVWLEVVNNLMSFILEKNEVEVMVKVIEEXSYDHLPDH			
778				
M11.1	F TSL Y NVYF A G E N M	N Y		
827				
M11.2	H W TPL YLPTVYL A E GI	M		
828				
Rpi-blb2	lkpccllyfasAPKDNVTTIBELKLGWFGFVEKTDMKSLEEVVKIYLDLISSSLVICF			
838				
M11.1	YALNF I	N F Q R	T C E -	
886				
M11.2	IINF I	N F R	T E	
888				
Rpi-blb2	NEIGDYPTCQLhd1vhdfCLIKARKEKLCDRISSAPS DLLPRQISIDYDDDEEHFOLNE			
898				IRR
M11.1	M D R I Q SV A	V D HT		→
946				
M11.2	M D R Q SV A	T V D P L N		
948				
Rpi-blb2	VLEFGNSKXKHSGKHLYSLTITNGDELDCHLSDTFHHLRHLRLRTBLESSETIMVKDSLLNE			
958				
M11.1	I D Q Y Z	S STNR V	L R SVD	
1006				
M11.2	R R Q Y F	S S G I V	L R SVG	
1008				
Rpi-blb2	ICMLNHLRYLSTGTYKVSPLPSFSNLWNLXLFVDRNKESTLILLPRIWDLVKLOVLETTA			
1018				
M11.1	4 RI T LI S KN F	L S E	6	
1066				
M11.2	K RI LJ S MN F	Q E		
1068				
Rpi-blb2	CSTFFMDADESILLIAEYTKLENUTALGELVLYSYMADTEDIFKRLPNLQVLHERLINESWDY			
1078				
M11.1	H SE 7 T S G KS	V T	N I W R	
1126				
M11.2	H C T C G KS	HC VVT	N E L YD	
1128				

FIGURE 15 (cont.)

Rpi-b1b2	STEQYWFPKLDFLTELEKLTVDFERSNTNDGSSAAINRFWDFFHPSSLERBLOLHEEPLT			
1138				
M11.1	P S H	10	F NFN SI	11
1186				
M11.2	P N S D Q		F N RLLT	
1188				
Rpi-b1b2	SDSLSLTIIARLLNLIELYLIVRTLIHGEENNMGEEDTFENLKCLMLSOVILSKWEVGEESFP			
1198				
M11.1	N K RG K	12	S KI K	13
1246	P		D	
M11.2	N K QE GK	P	F KI X	D K ND
1248				
Rpi-b1b2	TLEKKLIELSDCCHNLEETPSSFGDIYSLKKIKAVRSPOLENSALKIKEYAZDMRGGGDELQIL			
1258				
M11.1	N 1255	14		15
M11.2	N 1257			
Rpi-b1b2	GQKDIPPLPK 1267			

FIGURE 15 (cont.)

Figure 16: Multiple Sequence Alignments of Mi1.1, Mi1.2 and Rpi-bhb2 nucleic acids

Figure 16 (cont.)

Figure 16 (cont.)

M11.1	TATCATATTCGCGATCATCGCTGAGAATGGATTTCTGGAGTGACTCATTAGTGAATT 447
M11.2	TATCATATTCGCGATCATCGCTGAGAATGGATTTCTGGAGTGACTCATTAGTGAATT 447
Rpi-b1b2	TATCATATTCGCGATCATCGCTGAGAATGGATTTCTGGAGTGACTCATTAGTGAATT 477
	* ***** *
M11.1	CTTCAGAATATAATGCGCACACATAAGAGTTTCATGGGTGATAGTGAATGGTGGCATT 507
M11.2	CTTCAGAATATAATGCGCACACATAAGAGTTTCATGGGTGATAGTGAATGGTGGCATT 507
Rpi-b1b2	CTTCAGAATATAATGCGCACACATAAGAGTTTCATGGGTGATAGTGAATGGTGGCATT 537
	* *
M11.1	AAGGATGAGATGTTGAGATGCTGAGATGCTTCACTTGCTGAGAGTAGGAA 567
M11.2	AAGGATGAGATGTTGAGATGCTTCACTTGCTGAGAGTAGGAA 567
Rpi-b1b2	AAGGATGAGATGTTGAGATGCTTCACTTGCTGAGAGTAGGAA 597
	* *
M11.1	CACCTCCCTTGGGATGATCAGACTGATGAGAAGACTTCGACATCTCCGAGCTAGATGAGGAT 627
M11.2	CACCTCCCTTGGGATGATCAGACTGATGAGAAGACTTCGACATCTCCGAGCTAGATGAGGAT 627
Rpi-b1b2	CGCTTCCCTTGGGATGATCAGACTGATGAGAAGACTTCGACATCTCCGAGCTAGATGAGGAT 657
	* *
M11.1	GARGAAATGATGAGACTTCGACTTTCACTTGACATCTGAGATGAGCTTCACTTGAGATGCTT 687
M11.2	GAGACACATGATGAGACTTCGACTTTCACTTGACATCTGAGATGAGCTTCACTTGAGATGCTT 687
Rpi-b1b2	GATGAGATGATGAGACTTCGACTTTCACTTGACATCTGAGATGAGCTTCACTTGAGATGCTT 717
	* *
M11.1	CCGGTTGAACTGGGGTTATAACACATATGTTACAACTTGAGAAGCTTCACATCAGCT 747
M11.2	CCAACTGAACTGGGGTTATAACACATATGTTACAACTTGAGAAGCTTCACATCAGCT 747
Rpi-b1b2	CCAACTGAACTGGGGTTATAACACATATGTTACAACTTGAGAAGCTTCACATCAGCT 777
	* *
M11.1	GAAGTGGACTCTTCAATTAGCGACTTCAACCTTCAGGATATTCTGAGGGAAATAT 807

Figure 16 (cont.)

TABLE 16 (cont.)

Figure 16 (cont.)

Figure 16 (cont.)

Figure 16 (cont.).

Figure 16 (cont.)

M11.1	TTCCTCGTCAAATTACCATGATTATGATGAGGGGGAGCATTGCGCTTAATT 2664
Rpi-b1b2	TTGCCAGTCAAATTACCATGATTATGATGATGATGAGGGGAGCATTGCGCTTAATT 2694
***** *	
M11.1	GTCATGTTGCATTCATAAATAGAAAGGCAATTCTGGTAAACACCCTATTCCTGGGGATA 2718
M11.2	GTCATGTTGCATTCATAAATAGAAAGGCAATTCTGGTAAACACCCTATTCCTGGGGATA 2724
Rpi-b1b2	GTCCTGTTGCTGTTGCTTACATGAAAGGCAATTCTGGTAAACACCCTATTCCTGGGGATA 2754
***** *	
M11.1	ATGGAGACCAAGCTGTGAAGCAGTGTTCTGATGCACTTCACCCATAGACACTTGAGGCTT 2778
M11.2	AATGGAGACCAAGCTGTGAAGCAGTGTTCTGATGCACTTCACCCATAGACACTTGAGGCTT 2784
Rpi-b1b2	AATGGAGATGAGCTGGATGCACTTCACCCATAGACACTTGAGGCTT 2814
***** *	
M11.1	CTTAGAGTTGGGAACTTGCAATGGTGTCTTATCTGGTGGATGATGAA 2838
M11.2	ATTAGAGTTGGGAACTTGCAATGGTGTCTTATCTGGTGGATGATGAA 2844
Rpi-b1b2	CTTAGAGACCTTGCACTTGCAATGGTGTCTTATCTGGTGGATGATGAA 2874
***** *	
M11.1	ATATGCAATGTTGAAATCATTTGAGTCACTTATGACACAGCTTAATATGCT 2898
M11.2	ATATGCAATGTTGAAATCATTTGAGTCACTTATGACACAGCTTAATATGCT 2904
Rpi-b1b2	ATATGCAATGTTGAAATCATTTGAGTCACTTATGACACAGCTTAATATGCT 2934
***** *	
M11.1	TTGCTTCTCAAACCTCTGGAAATCTGGAAAGGCTGTTGCTTACCAACAGATCAATC 2958
M11.2	TTGCTTCTCAAACCTCTGGAAATCTGGAAAGGCTGTTGCTTACCAACAGATCAATC 2964
Rpi-b1b2	TTGCTTCTCAAACCTCTGGAAATCTGGAAAGGCTGTTGCTTACCAACAGATCAATC 2994
***** *	
M11.1	TTGGTACTATTAACCGGAAATTGGATCTGTAAAGTTCGAGCTGCTGCGTGGATGCT 3018
M11.2	TTGGTACTATTAACCGGAAATTGGATCTGTAAAGTTCGAGCTGCTGCGTGGATGCT 3024

Figure 16 (cont.).

Figure 16 (cont.)

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M11.1 TCGGATTCATCAACATAAGGGAGACTGCCAACCTTGAGAATTGTCCTTATCAT 3438  

M11.2 TCGGATTCATCAACATAAGGGAGACTGCCAACCTTGAGAATTGTCCTTATCAT 3444  

Rpi-b1b2 TCGGATTCATCAACATAAGGGAGACTGCCAACCTTGAGAATTGTCCTTATCAT 3474  

*****  

M11.1 ACATCATCCATGAGAAGATGAGAAGATGAGAAGATGAGAAGATGAGAATCTAAA 3458  

M11.2 ACATCATCCAGGGAGAAGATGAGAAGATGAGAAGATGAGAAGATGAGAATCTAAA 3504  

Rpi-b1b2 ACATCATCCAGGGAGAAGATGAGAAGATGAGAAGATGAGAAGATGAGAATCTAAA 3534  

*****  

M11.1 TTTTGAACTTCATCAAGTTAGTTCAAGTGGGAGTTGAGAGGAATCCCTCC 3558  

M11.2 TTGTTGAACTTGTGTTACTGACTCTTCAAGTGGGAGTTGAGAGGAATCCCTCC 3564  

Rpi-b1b2 TTGTTGAACTTGTGTTACTGACTCTTCAAGTGGGAGTTGAGAGGAATCCCTCC 3594  

*****  

M11.1 AATCTTGAAGAATTAAACTGGGGATCTATGAGCTGAGGAGATCCACCTAGTTT 3618  

M11.2 AACTTGAGAAATTAAACTGGAGGATCTGTAAGCTGAGGAGATTCACCTAGTTT 3624  

Rpi-b1b2 ACGTTGAGAAATTAAACTGGAGGATCTGAGGAGATTCACCTAGTTT 3654  

*****  

M11.1 GGAGATATTATTCATGAAATCTCAAATTATGAAAGATCCTCAACTTGAAAGATCT 3678  

M11.2 GGAGATATTATTCATGAAATCTCAAATTATGAAAGATCCTCAACTTGAAAGATCT 3684  

Rpi-b1b2 GGGGATATTATTCATGAAATCTCAAATTATGAAAGATCCTCAACTTGAAAGATCT 3714  

*****  

M11.1 GCCTCAAAATTAGGAATCTGAGATAATGGGGAGGGAGCTGAGATCTGAGCTT 3738  

M11.2 GCCTCAAAATTAGGAATCTGAGATAATGGGGAGGGAGCTGAGATCTGAGCTT 3744  

Rpi-b1b2 GCCTCAAAATTAGGAATCTGAGATAATGGGGAGGGAGCTGAGATCTGAGCTT 3774  

*****  


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Figure 16 (cont.)

M11.1	GGCCAAAAGAAATATCCCCTTATTTAAGTAG	3768
M11.2	GGCCAGAAAGAATATCCCCTTATTTAAGTAG	3774
Epi-blb2	GGCCAGAAGGATAATCCCGGTATTTAAGTAG	3804
	***** * * * * * * * * * * * * * * * *	

Figure 17: Multiple Sequence Alignments of M11.1, M11.2 and Rpi-blb2 proteins
CLUSTAL W (1.82) Multiple Sequence Alignments

```
Sequence format is Pearson
Sequence 1: M11.1          1255 aa
Sequence 2: M11.2          1257 aa
Sequence 3: Rpi-blb2        1267 aa
Start of pairwise alignments
Aligning...
Sequences (1:2) Aligned. Score: 91
Sequences (1:3) Aligned. Score: 82
Sequences (2:3) Aligned. Score: 81
Guide tree file created: [/ebi/extserv/clustalw-work/interactive/clustalw-20040503-14322840.clnd]
Start of Multiple Alignment
There are 2 groups
Aligning...
Group 1: Sequences: 2          Score:25939
Group 2: Sequences: 3          Score:24668
Alignment Score 19405
CLUSTAL-Alignment file created [/ebi/extserv/clustalw-work/interactive/clustalw-20040503-14322840.aln]

CLUSTAL W (1.82) multiple sequence alignment
M11.1      MEKRKDNNEEANNNSIVLFSALSKDADYLVFLE--NEENQKALDKDQEVEKIKLKMATIC 57
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Figure 17 (cont.)

Figure 17 (cont.)

Figure 17 (cont.)

Figure 17 (cont.)

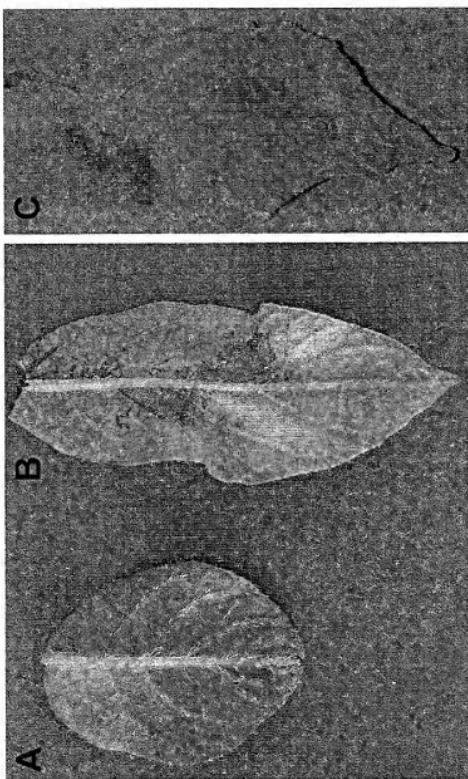


Figure 18